

6AX3

Half-Wave Vacuum Rectifier

DUODECAR TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode^a 5000^b max. volts

Heater positive with respect to cathode 300^c max. volts

Direct Interelectrode Capacitances (Approx.):^d

Plate to cathode and heater 5.5 μf

Cathode to plate and heater 7.5 μf

Heater to cathode 2.8 μf

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 2.625"

Seated Length 2.000" to 2.250"

Diameter 1.062" to 1.188"

Bulb T9

Base Small-Button Duodecar 12-Pin (JEDEC No. E12-70)

Basing Designation for BOTTOM VIEW 12BL

Pin 1 - Heater

Pin 2 - No Internal Connection

Pin 3 - Same as Pin 2

Pin 4 - Plate

Pin 5 - Do Not Use^e

Pin 6 - Do Not Use^e

Pin 7 - Cathode

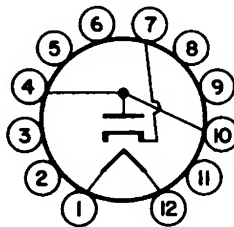
Pin 8 - Do Not Use^e

Pin 9 - Do Not Use^e

Pin 10 - Plate

Pin 11 - Same as Pin 2

Pin 12 - Heater



DAMPER SERVICE

Maximum Ratings, *Design-Maximum Values*:

For operation in a 525-line, 30-frame system^f

PEAK INVERSE PLATE VOLTAGE^a 5000 max. volts

PEAK PLATE CURRENT 1000 max. ma

DC PLATE CURRENT 165 max. ma

PLATE DISSIPATION 5.3 max. watts

Characteristics, *Instantaneous Value*:

Tube Voltage Drop for plate

ma. = 250 32 volts



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
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- ^a This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- ^b The dc component must not exceed 900 volts.
- ^c The dc component must not exceed 100 volts.
- ^d Without external shield.
- ^e Socket terminals 5, 6, 8, and 9 should not be used as tie points.
- ^f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

